

WATERFALL FOR SNMP

SAFE OT NETWORK MONITORING

Simple Network Management Protocol (SNMP) is widely deployed to manage and monitor networked devices on both industrial / OT and business / IT networks. Permitting SNMP traffic through industrial firewalls introduces significant risks, however, as all connections through firewalls introduce attack opportunities.

The Waterfall for SNMP software securely communicates SNMP trap information from industrial to enterprise networks. Enterprise users, as well as network and security management systems receive the traps normally and without risk to the original industrial network. Waterfall's SNMP connector enables businesses to leverage industrial data throughout their enterprises without exposing physical operations to cyber risk.

Waterfall for SNMP is simple to install, with user-friendly, web-based configuration and monitoring tools. Comprehensive diagnostics include real-time alarms that alert users of fault conditions via Syslog, Windows logs, email, SNMP traps, log files and Waterfall's monitoring console.

BENEFITS OF USING WATERFALL FOR SECURITY MONITORING



Secure emulation of SNMP hosts and devices



Simple deployment – connector runs entirely in the Unidirectional Gateway with simple web user interface



Eliminates remote control cyber attacks and online malware propagation



Facilitates compliance with NERC CIP, NIST 800-82, ANSSI, IEC 62443 and more



Safe visibility into industrial control system networks and systems from central and cloud-based SOCs



Power



Pipelines



Rail



Water



Facilities



Manufacturing

WATERFALL FOR SNMP

The Simple Network Management Protocol (SNMP) is widely deployed to monitor IT servers and devices on networks and is flexible enough for any network management and monitoring task large or small. However, opening paths through firewalls to allow SNMP or other data to pass through to an IT or outsourced / cloud-based Security Operations Center (SOC) or Network Operations Center (NOC) is problematic, because all connections through firewalls introduce attack opportunities.

Waterfall for SNMP receives SNMP traps according to user-configured rules. Trap content and metadata are forwarded through Waterfall's Unidirectional Security Gateway hardware to one or more central Network Management Systems (NMS) or Security Information and Event Management (SIEM) systems.

Unidirectional Gateways gather trap information and emulate to the IT network the hosts and devices that are the sources of those traps. Users and applications on the enterprise network access these replicas normally, without risk to the original OT network. The emulated SNMP sources provide central SIEM and NMS systems with the data that SOCs and NOCs need to diagnose and respond to network failures and OT intrusions. Waterfall for SNMP enables safe and seamless host and device monitoring.

FULLY- FEATURED & ROBUST SUPPORT:

- » Emulates SNMP sources and devices to central SIEM systems and Network Management Systems
- » Standard 1-10Gbps connectivity
- » Runs natively in the Unidirectional Gateway software
- » Enables secure, real-time monitoring of critical assets across the organization
- » Able to push SNMP traps to multiple IT-based destinations and systems
- » Supports unlimited number of devices in SNMP's passive mode

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ABOUT WATERFALL

Waterfall Security Solutions' unbreachable OT cybersecurity technologies keep the world running. For more than 15 years, the most important industries and infrastructure have trusted Waterfall to guarantee safe, secure, and reliable operations. The company's growing list of global customers includes national infrastructures, power plants, nuclear generators, onshore and offshore oil and gas facilities, refineries, manufacturing plants, utility companies, and more. Waterfall's patented Unidirectional Gateways and other solutions combine the benefits of impenetrable hardware with unlimited software-based connectivity, enabling 100% safe visibility into industrial operations and automation systems.

Waterfall's products are covered by U.S. Patents 7,649,452, 8,223,205, and by other pending patent applications in the US and other countries. "Waterfall", the Waterfall Logo, "Stronger than Firewalls", "In Logs We Trust", "Unidirectional CloudConnect", and "CloudConnect, and "One Way to Connect" are trademarks of Waterfall Security Solutions Ltd. All other trademarks mentioned above are the property of their respective owners. Waterfall Security reserves the right to change the content at any time without notice. Waterfall Security makes no commitment to update content and assumes no responsibility for any mistakes in this document. Copyright © 2023, Waterfall Security Solutions Ltd. All Rights Reserved. www.waterfall-security.com